

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)**Applicant(s): **Michael W. Eknoian**

Docket No.

**1872 DIV.VIN (EM-05-20)**

Application No.

**10/761,682**

Filing Date

**January 21, 2005**

Examiner

**Ives J. Wu**

Customer No.

**40256**

Group Art Unit

**1713**Invention: **SALT SENSITIVE AQUEOUS EMULSIONS**I hereby certify that this **IDS, with references, PTO-1449 and return postcard**

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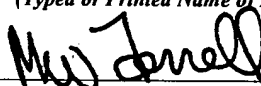
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May 5, 2005

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**Michael W. Ferrell**

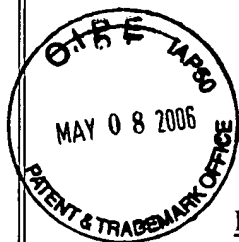
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## PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :  
*Michael W. Eknoian* : Examiner: UNKNOWN  
U.S. Serial No. 10/761,682 : Group Art Unit: 1713  
Filed January 21, 2004 :  
Docket No. 1872DIV.VIN (EM-05-20) :  
For: SALT SENSITIVE AQUEOUS :  
EMULSIONS :  
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Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
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### SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56, 1.97 AND 1.98

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

- ☒ This information Disclosure Statement is filed within the period set forth in §1.97(b) because it accompanies the new patent application submitted herewith, is filed within three months of the filing date of a national application or within three months of the date of entry of the national stage as set forth in §1.491 in an international application. Or is believed to be filed before the mailing date of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a Request for Continued Examination under 37 CFR 1.114, whichever event occurs last. However, in the event that the first office action has been mailed, the Commissioner is authorized to charge any fees under 37 C.F.R. 1.17(p) or credit any overpayment to Account No. 50-0935.
- ☐ This Information Disclosure Statement is filed after the period set forth in 37 C.F.R. 1.97(b), but is believed to be filed before the mailing date of a final action under §1.113 or a notice of allowance under §1.311, whichever occurs first.
- ☐ (1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;
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- ☐ (3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

### Related Cases

1. United States Patent Application No. 09/883,520, filed June 18, 2001, entitled "Water Dispersible, Salt Sensitive Non-Woven Materials", of *Parsons et al.*;
2. United States Patent Application No. 11/120,372, filed May 3, 2005, entitled "Salt-Sensitive Vinyl Acetate Binder Compositions and Fibrous Articles Incorporating Same", of *Farwaha et al.*;
3. United States Patent Application No. 11/120,381, filed May 3, 2005, entitled "Salt-Sensitive Binder Compositions with N-Alkyl Acrylamide and Fibrous Articles Incorporating Same", of *Farwaha et al.*; and
4. United States Patent Application No. 11/339,216, filed January 25, 2006, entitled "Salt-Sensitive Binders for Nonwoven Webs and Method of Making Same" of *Farwaha et al.*

### U.S. Patents

1. United States Patent No. 2,726,230, issued December 6, 1965, entitled "Preparation of Plastic condensable Alkyl Acrylate Polymers and Subsequent Elasto-Condensation Thereof", of *Carlson*;
2. United States Patent No. 3,035,004, issued May 15, 1962, entitled "Aqueous Polymer Dispersions Containing (C1-C8)-Alkyl Acrylate/Methacrylic Acid Copolymer Salt Thickeners", of *Glavis*;
3. United States Patent No. 3,248,356, issued April 26, 1966, entitled "Multisperse Acrylic Latexes", of *Snyder*;
4. United States Patent No. 3,677,991, issued July 18, 1972, entitled "Anionic Acrylate Latexes that Possess Sensitivity to Alkalinity", of *Moore*;
5. United States Patent No. 3,939,836, issued February 24, 1976, entitled "Water Dispersible Nonwoven Fabric", of *Tunc*;
6. United States Patent No. 4,005,251, issued January 25, 1977, entitled "Process for Preparation of Alkali Cellulose Ester Sulfates", of *Tunc*;
7. United States Patent No. 4,110,291, issued August 29, 1978, entitled "Copolymer Emulsions for Thickening Acrylic Polymer Latices", of *Barabas et al.*;
8. United States Patent No. 4,151,143, issued April 24, 1979, entitled "Surfactant-Free Polymer Emulsion Coating Composition and Method for Preparing Same", of *Blank et al.*;

9. United States Patent No. 4,242,408, issued December 30, 1980, entitled "Easily Disposable Non-Woven Products Having High Wet Strength at Acid pH and Low Wet Strength at Base pH", of *Evani et al.*;
10. United States Patent No. 4,309,469, issued January 5, 1982, entitled "Flushable Binder System for Pre-Moistened Wipers Wherein an Adhesive for the Fibers of the Wipers Interacts With Ions Contained in the Lotion With Which the Wipers are Impregnated", of *Varona*;
11. United States Patent No. 4,384,096, issued May 17, 1983, entitled "Liquid Emulsion Polymers Useful as pH Responsive Thickeners for Aqueous Systems", of *Sonnabend*;
12. United States Patent No. 4,769,167, issued September 6, 1988, entitled "Aqueous Functional Fluids Based on Polymers", of *Haas et al.*;
13. United States Patent No. 4,801,671, issued January 31, 1989, entitled "Production of Alkali Soluble, Carboxyl-Functional Aqueous Emulsion Thickeners", of *Shay et al.*;
14. United States Patent No. 5,073,591, issued December 17, 1991, entitled "Polymeric Thickeners and Methods of Producing the Same", of *Tsaur*;
15. United States Patent No. 5,252,332, issued October 12, 1993, entitled "Pre-Moistened Flushable Towlette Impregnated with Polyvinyl Alcohol Containing Binders", of *Goldstein*;
16. United States Patent No. 5,317,063, issued May 31, 1994, entitled "Water-Soluble Polymer Sensitive to Salt", of *Komatsu et al.*;
17. United States Patent No. 5,332,854, issued July 26, 1994, entitled "Surfactant", of *Yokota et al.*;
18. United States Patent No. 5,384,189, issued January 24, 1995, entitled "Water-Decomposable Non-Woven Fabric", of *Kuroda et al.*;
19. United States Patent No. 5,500,281, issued March 19, 1996, entitled "Absorbent, Flushable, Bio-Degradable, Medically-Safe Nonwoven Fabric with PVA Binding Fibers, and Process for Making the Same", of *Srinivasan et al.*;
20. United States Patent No. 5,509,913, issued April 23, 1996, entitled "Flushable Compositions", of *Yeo*;
21. United States Patent No. 5,656,746, issued August 12, 1997, entitled "Temporary Wet Strength Polymers from Oxidized Reaction Product of Polyhydroxy Polymer and 1,2-Disubstituted Carboxylic Alkene", of *Smith et al.*;

22. United States Patent No. 5,935,880, issued August 10, 1999, entitled "Dispersible Nonwoven Fabric and Method of Making Same", of *Wang et al.*;
23. United States Patent No. 5,972,805, issued October 26, 1999, entitled "Ion Sensitive Polymeric Materials", of *Pomplun et al.*;
24. United States Patent No. 6,043,317, issued March 28, 2000, entitled "Ion Sensitive Binder for Fibrous Materials", of *Mumick et al.*;
25. United States Patent No. 6,063,857, issued May 16, 2000, entitled "Solubilized Hydrophobically-Modified Alkali-Soluble Emulsion Polymers", of *Greenblatt et al.*;
26. United States Patent No. 6,127,593, issued October 3, 2000, entitled "Flushable Fibrous Structures", of *Bjorkquist et al.*;
27. United States Patent No. 6,194,517, issued February 27, 2001, entitled "Ion Sensitive Polymeric Materials", of *Pomplun et al.*; and
28. United States Patent No. 6,291,372, issued September 18, 2001, entitled "Ion Sensitive Binder for Fibrous Materials", of *Mumick et al.*

#### U.S. Published Applications

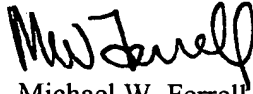
1. United States Patent Application No. 09/564,531, filed May 4, 2000, entitled "Ion-Sensitive, Water-Dispersible Polymers, A Method of Making Same and Items Using Same", of *Lang et al.*

#### Foreign Publications

1. British Publication No. GB 1 451 619, published October 6, 1976, entitled "Enzymatically Dispersible Non-Woven Webs and Pads", of *Crawford et al.*;
2. European Publication No. 0 582 123 A1, published February 9, 1994, entitled "Pre-Moistened Flushable Towelette Impregnated with Polyvinyl Alcohol Containing Binders", of *Goldstein*;
3. European Publication No. 0 608 460 A1, published August 3, 1994, entitled "Water-Decomposable Non-Woven Fabric", of *Kuroda et al.*;
4. European Publication No. 1 034 331 B1, published September 13, 2000, entitled "Flushable Fibrous Structures", of *Bjorkquist et al.*;
5. European Publication No. 1 093 478 B1, published April 25, 2001, entitled "Alkali Soluble Latex Thickeners", of *Bassett et al.*;

6. WIPO Publication No. WO 99/27186 A1, published June 3, 1999, entitled "Flushable Fibrous Structures", of *Bjorkquist et al.*;
7. WIPO Publication No. WO 99/65958 A1, published December 23, 1999, entitled "Alkali Soluble Latex Thickeners", of *Bassett et al.*;
8. WIPO Publication No. WO 00/38750 A1, published July 6, 2000, entitled "Ion-Trigger Polymer Coatings on Water-Sensitive Polymer Films", of *Pomplun et al.*;
9. WIPO Publication No. WO 00/39378 A2, published July 6, 2000, entitled "Water-Dispersible Nonwoven Fabrics Containing Temperature-Sensitive or Ion-Sensitive Polymeric Binder Materials and Process for Making Such Fabrics", of *Pomplun et al.*;
10. WIPO Publication No. WO 01/83666 A2, published November 8, 2001, entitled "Ion-Sensitive, Water-Dispersible Polymers, A Method of Making Same and Items Using Same", of *Chang et al.*; and
11. WIPO Publication No. WO 01/83866 A2, published November 8, 2001, entitled "Ion-Sensitive, Water-Dispersible Polymers, A Method of Making Same and Items Using Same", of *Chang et al.*

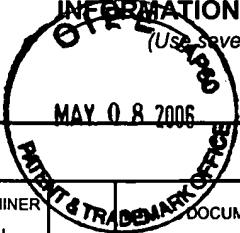
Respectfully submitted,



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May 5, 2006

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  				ATTY DOCKET NO. <b>1872.DIV (EM-05-20)</b>		APPLICATION NO. <b>10/761,682</b>		
				APPLICANT(S) <b>M.W. Eknoian</b>				
				FILING DATE <b>January 21, 2004</b>		GROUP ART UNIT <b>1713</b>		
<b>U.S. PATENT DOCUMENTS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		U.S. Patent 2,726,230	12/6/65	Carlson	260	86.1		
		U.S. Patent 3,035,004	5/15/62	Glavis	260	29.7		
		U.S. Patent 3,248,356	4/26/66	Snyder	260	29.6		
		U.S. Patent 3,677,991	7/18/72	Moore	260	29.6		
		U.S. Patent 3,939,836	2/24/76	Tunc	128	284		
<b>U.S. PATENT APPLICATION PUBLICATIONS</b>								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		U.S. Patent Appln. 09/564,531	Filed 5/4/00	Lang et al.				
<b>FOREIGN PATENT DOCUMENTS</b>								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
		British Pub. 1 451 619	10/6/76	Great Britain	D04H	1/64	✓	
		EPO Pub. 0 582 123 A1	2/9/94	EPO	D04H	1/4	✓	
		EPO Pub. 0 608 460 A1	8/3/94	EPO	D04H	1/64	✓	
		EPO Pub. 1 034 331 B1	9/13/00	EPO	D21H	27/00	✓	
		UEPO Pub. 1 093 478 B1	4/25/01	EPO	C08F	220/04	✓	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
		Related Cases: U.S. Patent Appln. Serial No. 11/339,216, filed January 25, 2004; U.S. Patent Appln. Serial No. 11/120,372, filed May 3, 2005; U.S. Patent Appln. Serial No. 11/120,381, filed May 3, 2005; U.S. Patent Appln. Serial No. 09/883,520, filed June 18, 2001						
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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	U.S. Patent 4,005,251	1/25/77	Tunc	536	59	
	U.S. Patent 4,110,291	8/29/78	Barabas et al.	260	29.6	
	U.S. Patent 4,151,143	4/24/79	Blank et al.	260	29.6	
	U.S. Patent 4,242,408	12/30/80	Evani et al.	428	290	
	U.S. Patent 4,309,469	1/5/82	Varona	428	74	

**U.S. PATENT APPLICATION PUBLICATIONS**

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						YES	NO
	WIPO Pub. WO 99/27186 A1	6/3/99	PCT	D21H	27/00	✓	
	WIPO Pub. WO 99/65958 A1	12/23/99	PCT	C08F	220/04	✓	
	WIPO Pub. WO 00/38750 A1	7/6/00	PCT	A61L	15/62	✓	
	WIPO Pub. WO 00/39378 A2	7/6/00	PCT	D04H	—	✓	
	WIPO Pub. WO 01/83666 A2	11/8/01	PCT	C11D	17/04	✓	

**OTHER DOCUMENTS** *(Including Author, Title, Date, Pertinent Pages, Etc.)*


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	U.S. Patent 4,384,096	5/17/83	Sonnabend	526	313	
	U.S. Patent 4,769,167	9/6/88	Haas et al.	252	76	
	U.S. Patent 4,801,671	1/31/89	Shay et al.	526	214	
	U.S. Patent 5,073,591	12/17/91	Tsaur	524	460	
	U.S. Patent 5,252,332	10/12/93	Goldstein	424	402	

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	U.S. Patent 5,317,063	5/31/94	Komatsu et al.	525	330.2	
	U.S. Patent 5,332,854	7/26/94	Yakota et al.	558	33	
	U.S. Patent 5,384,189	1/24/95	Kuroda et al.	428	288	
	U.S. Patent 5,500,281	3/19/96	Srinivasan et al.	428	288	
	U.S. Patent 5,509,913	4/23/96	Yeo	604	364	

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